

**Work Order ID 124946****\*124946\***

Page 1

Monday, September 29, 2014 1:15:23 PM

Item ID: D4673-041

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Pull Handle Assembly, Bell Door

Start Date: 9/29/2014 Start Qty: 2.00

**\*2\***

Cust Item ID:

Required Date: 10/10/2014 Req'd Qty: 2.00

**\*2\***

Customer:

Reference:

Approvals: Process Plan: MW Date: 11-9-29

Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4673	A								

100

0.00

**\*100\***

PURCHASING

Purchasing

Memo

Purchasing

Issue P/O: 25951

0.00

Fabricate D4673-041 as per dwg  
Possible Supplier: TulmarSend to supplier: (2x) MS20230WBPS10  
(2X) MS20230GBPS10

Material release note is required

CD 11/09/29 2

110

Receive &amp; Inspect for Damage &amp; Mat'l Certs

0.00

**\*110\***

Packaging

Memo

Packaging

Ensure Material Release Note is attached

0.00

2x 10/14-10-27

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other
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**Work Order ID 124946**

Monday, September 29, 2014 1:15:23 PM

**\*124946\***

Page 2

Item ID: D4673-041

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Pull Handle Assembly, Bell Door

Start Date: 9/29/2014 Start Qty: 2.00

**\*2\***

Cust Item ID:

Required Date: 10/10/2014 Req'd Qty: 2.00

**\*2\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC6- Inspect dimensions to drawing	0.00							DAS 38 9-89
<b>*120*</b>									
QC	Memo	0.00							
Quality Control									OCT 28 2014
130	Identify as per dwg & Stock Location: MF	0.00							DAS 26 9-89
<b>*130*</b>									
Packaging	Memo	0.00							OCT 28 2014
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
<b>*140*</b>									
QC	Memo	0.00							
Quality Control									

14/10/29 JF  
4-10-23

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
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# Picklist Print

Monday, September 29, 2014 1:15:20 PM

Page 1

Work Order ID: 124946

**\*124946\***

Parent Item: D4673-041

**\*D4673-041\***

Parent Item Name: Pull Handle Assembly, Bell Door

Start Date: 9/29/2014

Required Date: 10/10/2014

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A 12.10.12 NEW ISSUE DD VERF:JFS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4673-041P		Purchased	No			110	Each	0.0000	1	2			
<b>*D4673-041P*</b>									<b>**</b>				
Pull Handle Assembly, Bell Door													
MS20230GBPS10		Purchased	No			110	Each	400.0000	2	4			
<b>*MS20230GBPS10*</b>									<b>**</b>				
Spur Grommet													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST333		400							
				123410		400							
MS20230WBPS10		Purchased	No			110	Each	28.0000	2	4			
<b>*MS20230WBPS10*</b>									<b>**</b>				
Grommet													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST315		28							
				123410		8							
				m128228		10							
				m128398		10							

2x 8p/4-10-27

CX14/09/30

4

CX14/09/30

4

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

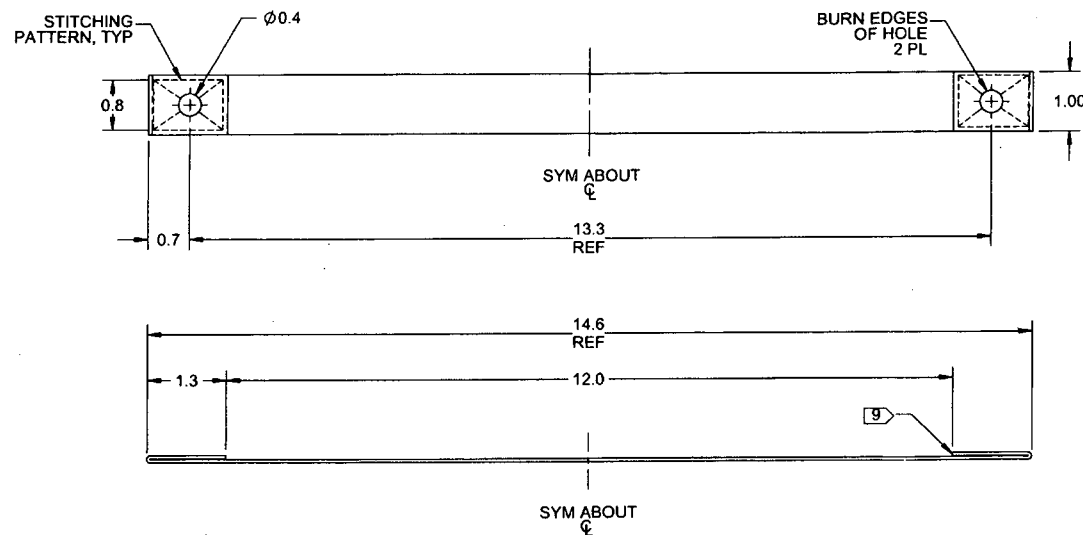
Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design <input type="checkbox"/>									
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Handling/Pre <input type="checkbox"/>									
Material <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Offset/Setup <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Transport <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other
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ITEM	QTY	P/N	DESCRIPTION
	X	D4673-041	PULL HANDLE ASSY BELL DOOR
1	1	D4673-1	PULL HANDLE BELL DOOR
2	2	MS20230WBPS10	GROMMET
3	2	MS20230GBPS10	SPUR GROMMET

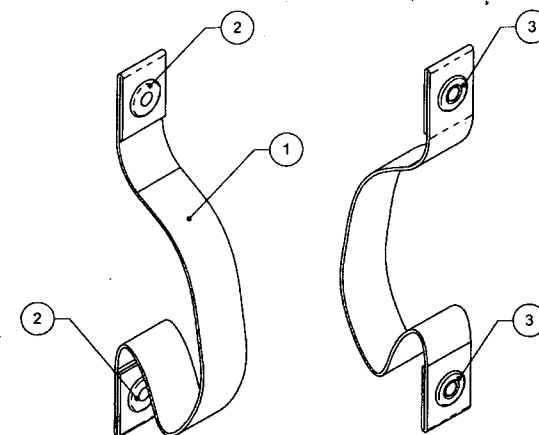
mf  
124946



**D4673-1 PULL HANDLE BELL DOOR**

**NOTES:**

- 1) MATERIAL -1: WEBBING MATERIAL: NYLON, MIL-W-4088K, TYPE XVII, CLASS 1A, COLOR GREY  
THREAD: NYLON THREAD TO BE USED FOR ALL SEAMS CONFORMING TO V-T-295 TYPE II,  
CLASS A, SIZE F, COLOR GREY
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT -041: 0.06 lbs APPROX
- 8) ALL STITCHING TO BE MACHINE STITCHED IN ACCORDANCE WITH ASTM D6193 TYPE 301,  
8-10 STITCHES PER INCH, MINIMUM 0.5" BACK STITCH
- 9) HOT CUT WEBBING ENDS TO PREVENT FRAYING



**D4673-041 PULL HANDLE ASSY BELL DOOR**

RELEASE  
2012-09-26

A	NEW ISSUE	AJS	12.09.11
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	AO	DRAWING NO.	REV. A
MFG. APPR.		D4673	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		PULL HANDLE ASSY BELL DOOR	NTS
DATE	12.09.11	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO25951**

Purchase Order Date 9/29/2014

PO Print Date 9/29/2014

Page Number 1 of 2

**Order From :**

VC-TUL001

TULMAR SAFETY SYSTEMS  
1123 CAMERON ST  
HAWKESBURY, ON K6A 2B8  
CA

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAXED**

**Contact Name**

**Vendor Phone** 613 632 1282

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

**Ship To Contact**

**Ship To Phone**

**Ship Via:**

VENDOR'S TRUCK

**Ship Acct:**

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extend Pri
Line Comments			Promise Date				
Delivery Comments							

1	D4673-041P	Pull Handle Assembly, Bell Door	10/10/2014		2.00	\$95.50	\$191.00
			Yes		Each		
			10/10/2014				
	AS PER DWG D4673 REV. A B124946						

**Line Total:** \$191.00

2	71401-45	PROCUREMENT QUALITY CLAUSES	10/10/2014		1.00	\$0.00	\$0.00
			No				
			10/10/2014				

**Procurement Quality Clauses**

A004 faa-pma/tso

A005 right of entry

A007 first article inspection (fai)

A016 personnel qualification

A026 certification of material conformance

✗ A027 flammability test ✗

A040 notification of quality escape

A041 quality management system

✗ A043 retention of quality document ✗

DAS

29

9-89

DAS

29

9-89

**Note:**

9/29/2014

# PACKING SLIP

# TULMAR

Tulmar Safety Systems Inc.  
1123 Cameron Street  
Hawkesbury, ON K6A 2B8 CA  
Tel: 613-632-1282  
Fax: 613-632-2030  
MID : XOTULSAF1123HAW  
email: Info@tulmar.com

Packing Slip No.

**53026**

Ship Date

27-Oct-14

Bill To:

**Dart Aerospace**

1270 Aberdeen Street

Hawkesbury, ON K6A 1K7. Canada

Ship to:

**Dart Aerospace**

1270 Aberdeen Street

Att: Chantal Lavoie

Tel: 613-632-9577

Hawkesbury, ON K6A 1K7. Canada

Order number	Sales order date	Account number	Account manager
32331	30-Sep-14	CDART100	Helena Vandeweerd
PO number	Ship Via	Shipping Terms	
PO25951	Pick-Up	FOB HAWKESBURY	
Item No.	Quantity ordered	UOM	Qty Shipped/Returned
Description			Quantity on back order

8441-001

2

EA

2

Handle, Pull, Assy, Bell Door/

Drawing No: D4673-041 + Markup

DWG Rev: A + 1

A004 A005 A007 A016 A026 A040 A041

\* A027 & A043 waived

Lot No: BATCH00000000001 Qty: 2

Shipper

*Phil Reed*

Date:

OCT 27 2014

## Certificate of Conformance

☒ See Certification Enclosed

I hereby certify that the items listed hereon have been inspected, and / or tested (as applicable), conform to all specifications and requirements detailed in the contract or purchase order. Objective evidence to support this statement is on file, and can be made available upon request.

If any questions or concerns, please contact QA Manager @ 613-632-1282 ext. 245.

Authorized Inspector

*Renaire LaLiberte*

Date:

OCT 27 2014



# CERTIFICATE

Number: 203472-2506

Bally Ribbon Mills  
23 North 7th St. Bally PA 19503  
p 610.845.2211 f 610.845.8013

10/16/14

Qualified Lab - List No. 1935

Customer	TULMAR SAFETY SYSTEMS	Memo No.	411284
Purchase Order No.	28030-00	Shipment	
Specifications	MIL-W-4088K TYPE XVII CLASS 1a P/N 2262-GRY	Shipped Via	FED X GROUND
Contract No.	LOT #9B7837 DOM:09/13 UV, MOULD, FUNGUS RESISTANT	Quantity	2 YD
BALLY RIBBON MILLS	402801000GYBAC704	Lot Quantity	246 YDS
Pattern No.	4028-1" GREY #BAC704 NYLON WEBBING		

## CERTIFICATE OF CONFORMANCE

I certify that this pattern conforms with the physical, chemical, and visual quality of the Military Specifications listed above.

*Jerome Richards*

Jerome Richards, Quality Assurance Manager

*c/c's used to mbg.*

*D4673-041*

*Rev. A+1*

*Louise Laliberté  
Oct. 27/14*

*2262-GRY*

*B#2*





## CERTIFICATE OF COMPLIANCE

TO: Tulmar Safety Systems

Purchase Order #: 26730-00

Our Part Number: RRG/SW #0 Brass

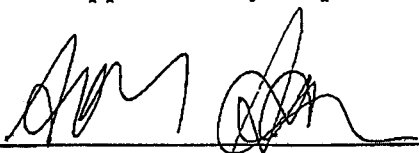
Your Part Number: 4287

• Quantity Shipped: 2 gross of each or 288 pieces each

Date Shipped: 12/022013

Conforms to: NASM20230, MS20230BS10 Type 3 IAW Procurement Spec  
NASM 16491

Siska, Inc. hereby certifies that all articles in the above shipment and in the quantity given are in conformance with the requirements and specifications of the above part numbers applicable to your purchase order.

  
\_\_\_\_\_  
Authorized Signature

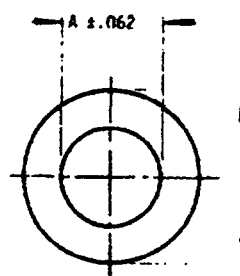
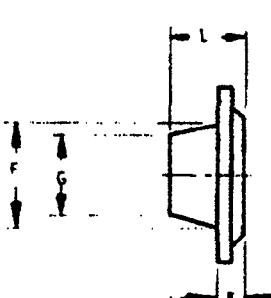
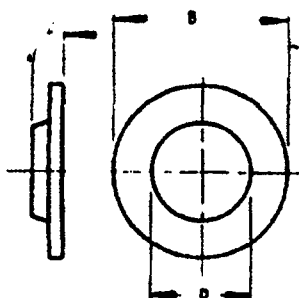
12/2/2013  
Date

Siska, Inc 8 Rosol Lane PO; Box 921, Saddle Brook, NJ 07663; Phone 800-393-5381; Fax  
201-794-8147 [www.Siska.com](http://www.Siska.com)

4287  
B# 14

DEC 05 2013





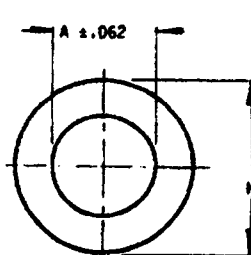
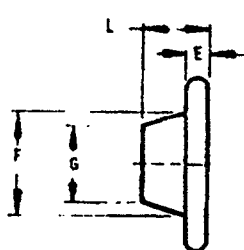
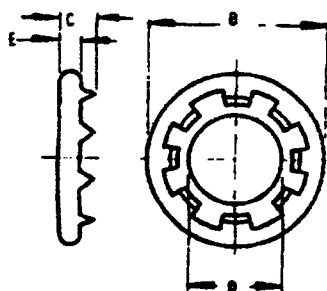
FED. SUP CLASS  
5325

PLAIN WASHER

PLAIN GROMMET

PLAIN GROMMET

ASSY DASH NO.			DETAILED PART NO.						TRADE SIZE NO.	A DIA AFTER INSERTION	B +.005 DIA	C +.005	D +.005 DIA	E +.005	F +.005 OD	G +.005 ID	H +.005 OD	L +.005
AL	BRASS		GROMMET		WASHER													
	PLAIN	PLATED	AL	BRASS		AL	BRASS											
PLAIN				PLATED	PLAIN		PLATED											
A20	B20	BP20	GA20	GB20	GBP20	WA20	WB20	MBP20	00	.156	.460	.029	.218	.035	.218	.176	.425	.170
A10	B10	BP10	GA10	GB10	GBP10	WA10	WB10	MBP10	0	.250	.546	.030	.286		.290	.240	.545	.210
A1	B1	BP1	GA1	GB1	GBP1	WA1	WB1	MBP1	1	.312	.700	.041	.359		.375	.286	.687	.220
A2	B2	BP2	GA2	GB2	GBP2	WA2	WB2	MBP2	2	.375	.835	.045	.453		.475	.362	.815	.250
A3	B3	BP3	GA3	GB3	GBP3	WA3	WB3	MBP3	3	.438	.955	.050	.530		.050	.545	.433	.970
A4	B4	BP4	GA4	GB4	GBP4	WA4	WB4	MBP4	4	.500	1.062	.050	.585	.046	.630	.486	1.050	.420
A5	B5	BP5	GA5	GB5	GBP5	WA5	WB5	MBP5	5	.625	1.205	.055	.740	.045	.785	.594	1.220	.375



SPUR WASHER

SPUR GROMMET

ROLLED RIM GROMMET

ASSY DASH NO.		DETAILED PART NO.				TRADE SIZE NO.	A DIA AFTER INSERTION	B +.005 OD	C +.005	D +.005 ID	E +.005	F +.005 OD	G +.005 ID	H +.005 OD	L +.020
		GROMMET		WASHER											
		BRASS		BRASS											
PLAIN	PLATED	PLAIN	PLATED	PLAIN	PLATED										
BS10	BPS10	GBS10	GBPS10	WBS10	WBPS10	0	.250	.645	.150	.345	.060	.375	.270	.670	.235
BS1	BPS1	GBS1	GBPS1	WBS1	WBPS1	1	.312	.790		.455	.065	.480	.380	.790	.275
BS2	BPS2	GBS2	GBPS2	WBS2	WBPS2	2	.375	.890	.156	.512	.070	.532	.425	.890	.315
BS3	BPS3	GBS3	GBPS3	WBS3	WBPS3	3	.438	.970	.190	.537	.075	.545	.430	.970	.330
BS4	BPS4	GBS4	GBPS4	WBS4	WBPS4	4	.500	1.120	.205	.645	.080	.695	.560	1.120	.405
BS5	BPS5	GBS5	GBPS5	WBS5	WBPS5	5	.625	1.270	.225	.777	.085	.800	.600	1.285	.455

MATERIAL: BRASS OR ALUMINUM. SEE PROCUREMENT SPECIFICATION.

FINISH: ALUMINUM, ANODIZE IN ACCORDANCE WITH MIL-A-8625; BRASS, CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 2 ONLY WHEN SPECIFIED.

EXAMPLES OF PART NUMBERS: MS20230A20 - NO. 00 SIZE, PLAIN GROMMET ASSEMBLY, ALUMINUM.

MS20230BPS10 - NO. 0 SIZE, SPUR GROMMET ASSEMBLY, BRASS, CADMIUM PLATED.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS  $\pm .010$ .

THE ASSEMBLY SHALL CONSIST OF ONE GROMMET AND ONE WASHER OF THE SAME MATERIAL.

INTERCHANGEABILITY RELATION WITH AN230 GROMMETS: MS20230 GROMMETS AND AN230 GROMMETS OF LIKE DASH NUMBERS ARE UNIVERSALLY, FUNCTIONALLY, AND DIMENSIONALLY INTERCHANGEABLE.

REINSTATE

AFTER 28 MARCH 1969

THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

P.A.  
NAVY - AS  
Other Cust  
USAF - 82

TITLE

GROMMETS, METALLIC, PLAIN AND  
SPUR, WITH WASHERS, TYPE I AND TYPE III

MILITARY STANDARD

MS20230(ASG)

PROCUREMENT SPECIFICATION  
MIL-C-16491

SUPERSEDES:

AN230

SHEET

OF

1

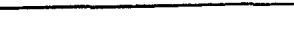
APPROVED 19 AUG 67  
7 OCT 68  
1 JAN 64  
C 20 MAR 69

Rec'd 1/10/2011  
(H)

### Certificate of Conformance

**Supplier Declarations:**

**Additional Information (MRS#, MRA#, limitations, etc...):**

Signature 	Name Jack Schachter	Date (00-MM-YYYY) 20-May-2014
Title Vice President	Email jack.schachter@cansew.ca	Phone # (514) 382-2807

SN

2503/3